(19) World Intellectual Property
Organization
International Bureau





(43) International Publication Date 26 May 2005 (26.05.2005)

PCT

(10) International Publication Number WO 2005/047317 A1

(51) International Patent Classification⁷: 14/36, C12N 15/62, 5/10

C07K 14/465,

(21) International Application Number:

PCT/FI2004/000679

(22) International Filing Date:

15 November 2004 (15.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20031663

14 November 2003 (14.11.2003) F.

(71) Applicants and

- (72) Inventors: NORDLUND, Henri, Rainer [FI/FI]; Hirvirinne 6-8 B 8, FI-40520 Jyväskylä (FI). LAITINEN, Olli, Heikki [FI/FI]; Särkiniementie 11 D 33, FI-70700 Kuopio (FI). HYTÖNEN, Vesa, Pekka [FI/FI]; Keskikatu 14 A 4, FI-40700 Jyväskylä (FI). KULOMAA, Markku, Sakari [FI/FI]; Laatokantie 4, FI-33450 Siivikkala (FI).
- (74) Agent: BERGGREN OY AB; P. O. Box 16 (Jaakonkatu 3 A), FI-00101 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: AVIDIN MUTANTS

Signal sequence

MVHATSFILL LLLLSLALVA FOLSARKRTO

BS B6

PTFGFTVNWK FSESTTVFTG OCFIDRINGKE

B7 B8

VLKTNWLLRS SVNDIGDDWK ATRVGINIFT

RLRTQKEGGS GGSARKCSLT GKWTNDLGSN

B2 B3

MTIGAVNSRG EFTGTYITAV TATSNEIKES

B4

PLHGTONTIN KEGGSTTVFT GOCFIDRINGK

B7 B8

EVLKTNWLLR SSVNDIGDDW KATRVGINIFT

TRLRTQREGG SGGSARKCSL FGWTNDLGS

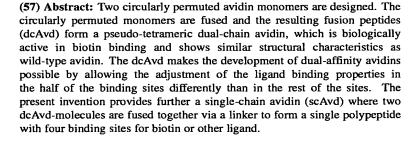
B1

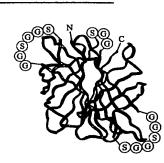
TRLRTQREGG SGGSARKCSL FGWTNDLGS

B2

B4

SELHGTQNTI NKRTQPTFGF TVNWKFSE





WO 2005/047317 A1



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.